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tion for a plurality of objects, including at least one of text objects, graphic layout objects, or graphic image objects included in the Web page;

defining a primary datum corresponding to the original page layout; and, for each object,

defining an object datum corresponding to the layout location for the object;

generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to the vector that \(^{10}\) is generated.

6. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising enabling the Web page to be displayed at different resolutions by scaling the scalable content to re-render the display in response to associated user inputs,

wherein the original page layout, functionality, and design of the Web page content are preserved at each of the different resolutions.

- 7. The wireless device of claim 1, wherein execution of the  $^{20}$ instructions performs further operations comprising returning the display of the Web page to a previous view in response to a corresponding user input.
- 8. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising enabling a user to pan a view of the Web page in response to a corresponding user input.
- 9. The wireless device of claim 8, wherein execution of the instructions performs further operations comprising enabling the view of the Web page to be panned in real-time.
- 10. The wireless device of claim 1, wherein the page layout of the Web page is defined to have an original aspect ratio, and wherein the scalable content is scaled when rendered so as to produce a display of the Web page having a different aspect 35
- 11. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising enabling a user to zoom on a column of the Web page via a corresponding user input, wherein in response thereto, the display is re-rendered such that content corresponding to the selected column is enlarged.
- 12. The wireless device of claim 11, wherein the content of the column is reformatted to fit characteristics of the display when the display is re-rendered.
- 13. The wireless device of claim 11, wherein the corresponding user input comprises tapping on the column via the display.
- 14. The wireless device of claim 11, wherein the display is re-rendered such that content corresponding to the selected 50 column is rendered to fit across the display.
- 15. The wireless device of claim 1, wherein the Web content includes at least one image, and wherein execution of the instructions performs further operations comprising enabling a user to zoom on an image via a corresponding user input, 55 wherein in response thereto, the display is re-rendered such that the image is enlarged.
- 16. The wireless device of claim 15, wherein the corresponding user input comprises tapping on the image via the display.
- 17. The wireless device of claim 15, wherein the display is re-rendered such that the image is rendered to fit across the display.
- 18. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising 65 enabling a user to zoom on a paragraph of the Web content via a corresponding user input, wherein in response thereto, the

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display is re-rendered such that content corresponding to the selected paragraph is enlarged.

- 19. The wireless device of claim 18, wherein the content of the paragraph is reformatted to fit characteristics of the display when the display is re-rendered.
- 20. The wireless device of claim 18, wherein the corresponding user input comprises tapping on the paragraph via the display.
- 21. The wireless device of claim 18, wherein the display is re-rendered such that content corresponding to the selected paragraph is rendered to fit across the display.
- 22. The wireless device of claim 1, wherein the Web page includes text, layout attributes, and images, and wherein execution of the instructions performs further operations 15 comprising:

receiving content corresponding to the text and layout attributes via a first connection; and

receiving content corresponding to at least one image via a second connection.

23. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising:

generating a vector-based display list associated with the scalable content; and

employing the display list to re-render the display at different scale factors to zoom the Web page.

24. The wireless device of claim 1, wherein execution of the instructions performs further operations comprising:

parsing markup language code corresponding to the retrieved Web page to determine the original page layout of the content on the Web page;

logically grouping selected content into objects;

defining a primary datum corresponding to the original page layout; and,

for each object,

defining an object datum corresponding to a layout location datum for the object's associated display content; generating a vector from the primary datum to the object datum for the object; and

creating a reference that links the object to the vector that is generated.

25. The wireless device of claim 24, wherein execution of the instructions performs further operations comprising:

generating a bounding box for each object, the bounding box representing a portion of a rendered display page occupied by the object's associated group of content.

26. The wireless device of claim 25, wherein execution of the instructions performs further operations comprising: mapping the object vectors and associated bounding boxes

to a virtual display in memory.

27. The wireless device of claim 26, wherein execution of the instructions performs further operations comprising:

enabling a user to view the Web page at a user-selectable zoom level and panned view by,

determining a first scale factor and offset in response to one or more corresponding user inputs defining a user-selectable zoom level and panned view corresponding to a rendered display of the Web page desired by a user; and

determining a virtual display bounding box for the virtual display associated with the first scale factor and offset;

identifying object bounding boxes having at least a portion falling within the virtual display bounding box;

for each of such object bounding boxes,

retrieving content associated with that object bounding box;